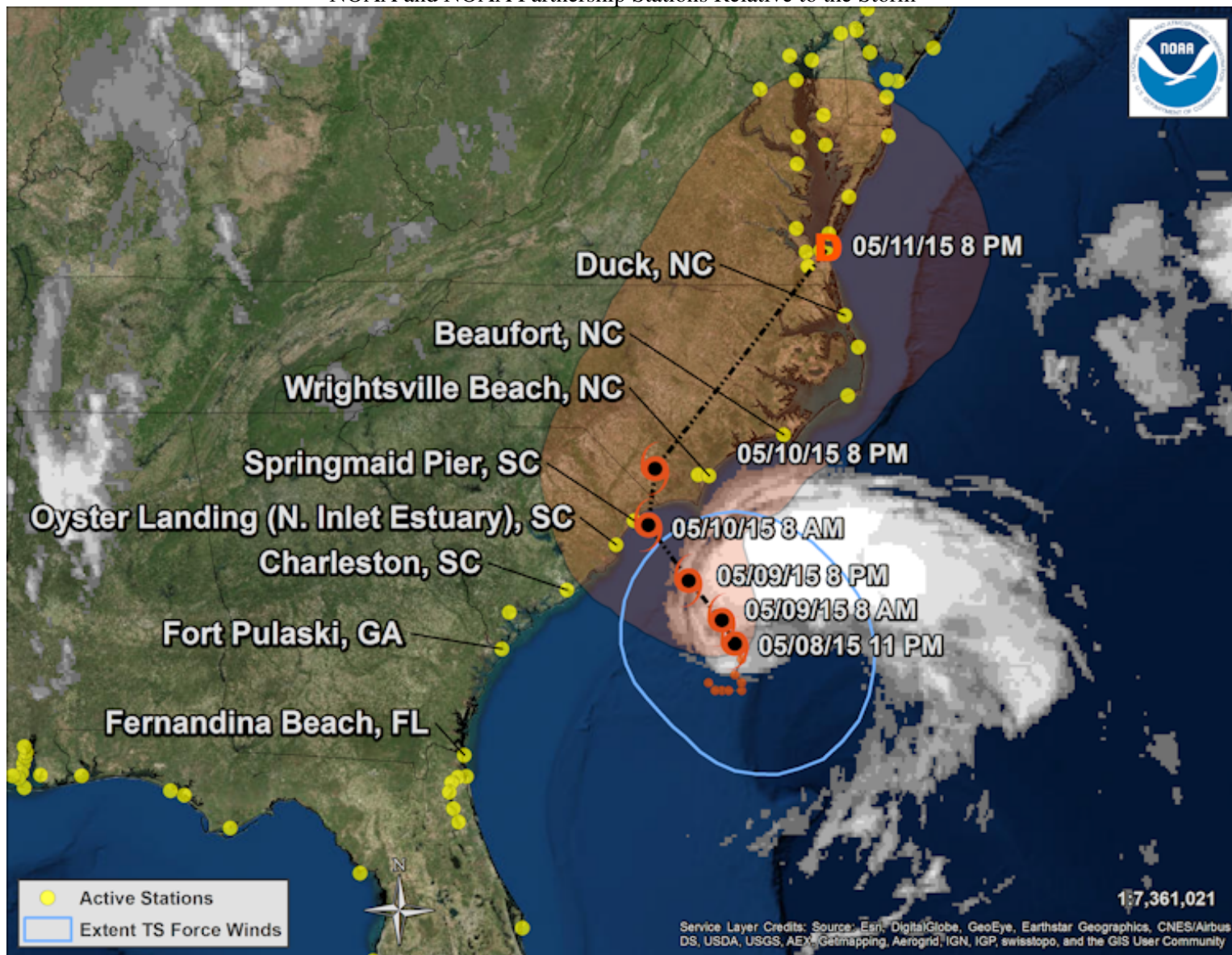Subtropical Storm ANA QuickLook
Posted: 00:00 EDT 05/09/2015

NOAA and NOAA Partnership Stations Relative to the Storm

Storm Analysis

As of 05/09/2015 00:00 EDT water levels from northeast Florida to the central coast of North Carolina are slightly elevated and generally range between 0.5 and 1.0 feet above tidal predictions. Winds along the Carolina coast range from 10 to 20 knots with a few gusts over 30 knots. Barometric pressure has leveled out across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting <u>Mean Higher High Water</u> (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the <u>Center for Operational Oceanographic Products & Services</u> website. For more information or archived products and reports, please see the <u>Storm QuickLook</u>Homepage.

Analyst: PFF

SELECT <u>NATIONAL HURRICANE CENTER</u> ADVISORY INFORMATION:

SUBTROPICAL STORM ANA ADVISORY NUMBER   5

NWS NATIONAL HURRICANE CENTER MIAMI FL

1100 PM EDT FRI MAY 08 2015

...HURRICANE HUNTERS FIND ANA STRONGER...

WATCHES AND WARNINGS

A Tropical Storm Warning is in effect for...

* South Santee River South Carolina to Cape Lookout

A Tropical Storm Watch is in effect for...

* Edisto Beach South Carolina to South of South Santee River

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, in this case within 24-36 hours.

Interests elsewhere in eastern North Carolina should monitor the progress of Ana.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 PM EDT (0300 UTC), the center of Subtropical Storm Ana was located ABOUT 140 MI...225 KM SE OF MYRTLE BEACH SOUTH CAROLINA. The storm is moving toward the north near 2 mph (4 km/h). A turn

toward the northwest and then back to the north at a slightly faster forward speed is expected over the next 48 hours. On the forecast track, the center will be near the coasts of South and North Carolina by Sunday morning.

Reports from an Air Force Reserve Unit Hurricane Hunter aircraft indicate tha maximum sustained winds have increased to near 60 mph (95 km/h) with higher gusts. Little additional strengthening is forecast through Saturday morning. A gradual weakening trend is likely to begin within 24 hours.

Winds of 40 mph extend outward up to 140 miles (220 km) from the center.

The minimum central pressure estimated from Hurricane Hunter aircraft data is 998 mb (29.47 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are expected within the warning area, and possible within the watch area, by Saturday afternoon or evening. STORM SURGE: The combination of storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters. The water could reach 1 to 2 ft above ground at times of high tide in coastal areas from Cape Hatteras, North Carolina southward through South Carolina. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Ana is expected to produce rainfall accumulations of 2 to 4 inches, with isolated amounts of 6 inches, over eastern portions of North Carolina and South Carolina through the weekend.

SURF: Swells generated by Ana are affecting portions of the southeastern U.S. coast. These swells will likely cause life- threatening surf and rip currents. Please see statements issued by your local National Weather Service forecast office.
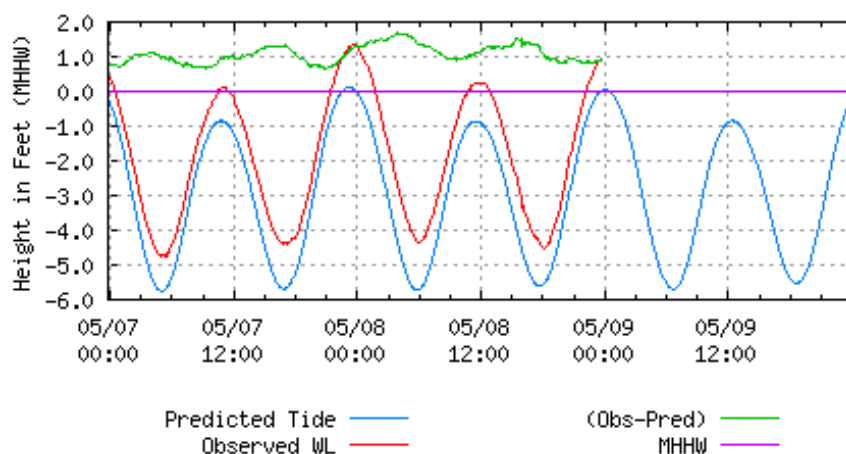
Forecaster Pasch

Jump to: Charleston - Water Level, Charleston - Winds, Charleston - Barometric, Oyster Landing (N Inlet Estuary) - Water Level, Springmaid Pier - Water Level, Springmaid Pier - Winds, Springmaid Pier - Barometric, Wrightsville Beach - Water Level, Wrightsville Beach - Winds, Wrightsville Beach - Barometric, Beaufort - Water Level, Beaufort - Winds, Duck - Water Level, Duck - Winds, Fort Pulaski - Water Level, Fort Pulaski - Winds, Fernandina Beach - Water Level, Fernandina Beach - Winds

Subtropical Storm ANA QuickLook, POSTED 00:00 EDT 05/09/2015

NOAA/NOS/CO-OPS 8665530 Charleston, SC
Preliminary Water Level, relative to Mean Higher High Water(MHHW)

Predicted Tide ——
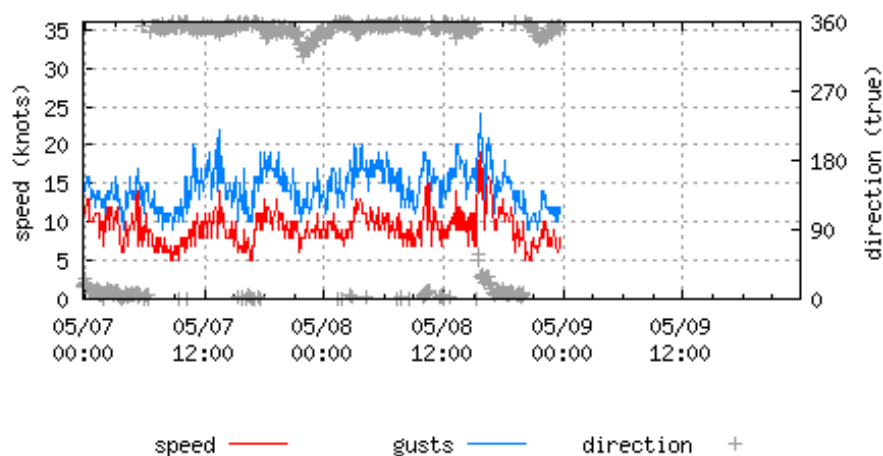Observed WL ——
(Obs-Pred) ——
MHHW ——

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.96 ft. Predicted: 0.02 ft. Residual: 0.94 ft.
Historical Maximum Water Level: Sep 21 1989, 6.76 ft.
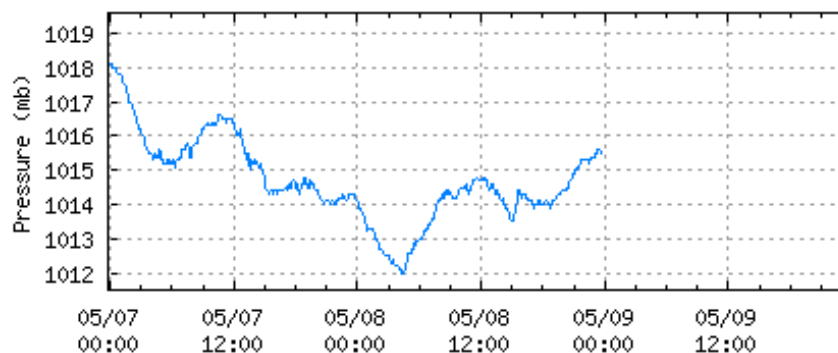Next High Tide: 05/09/2015 00:01 (EDT), 0.04 ft.

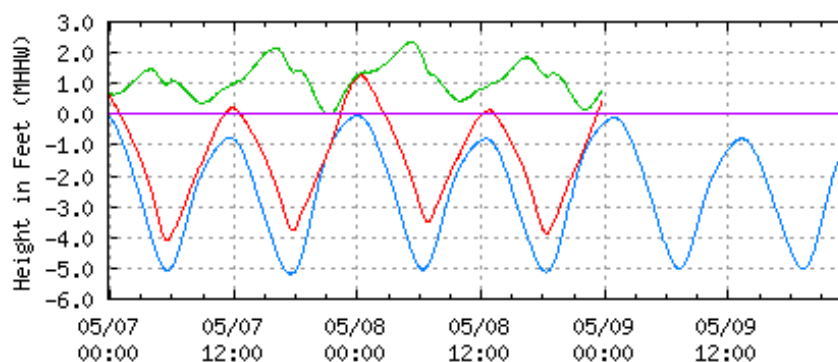NOAA/NOS/CO-OPS 8665530 Charleston, SC
Wind Speed / Gusts / Direction

speed ——
gusts ——
direction +

Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 8 knots Gusts: 12 knots Direction: 350° T
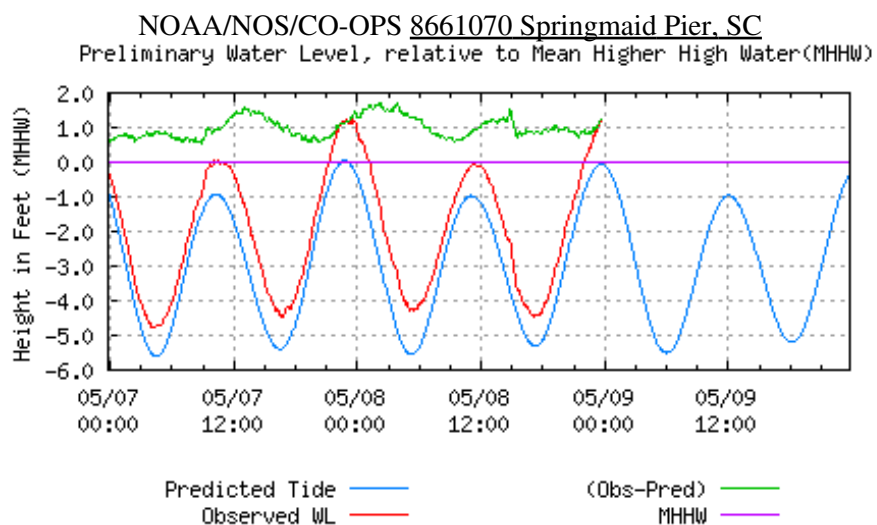
4

NOAA/NOS/CO-OPS 8665530 Charleston, SC

Last Observed Sample: 05/08/2015 23:42 (EDT)
Barometric Pressure: 1015.5 mb

NOAA/NOS/CO-OPS 8662245 Oyster Landing (N Inlet Estuary), SC

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.41 ft. Predicted: -0.36 ft. Residual: 0.77 ft.
Historical Maximum Water Level: Aug 26 2011, 2.40 ft.
Next High Tide: 05/09/2015 00:54 (EDT), -0.12 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC
Preliminary Water Level, relative to Mean Higher High Water(MHHW)
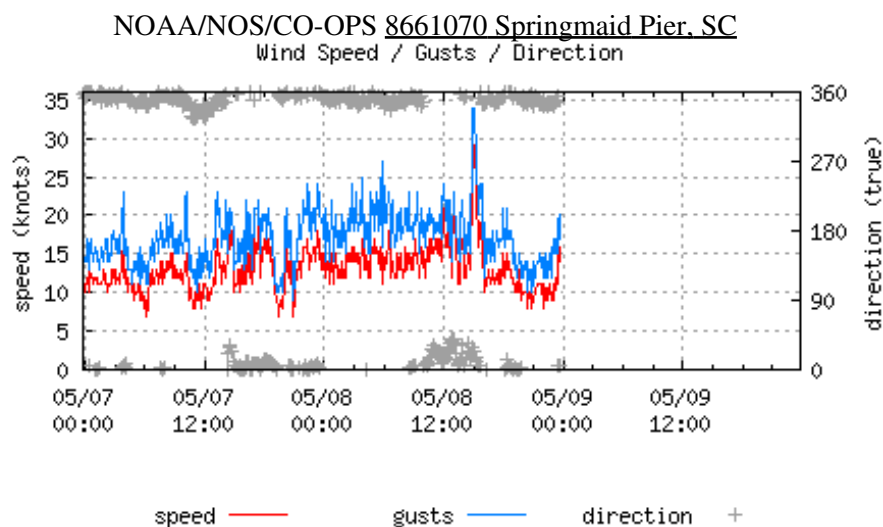

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 1.17 ft. Predicted: -0.06 ft. Residual: 1.23 ft.
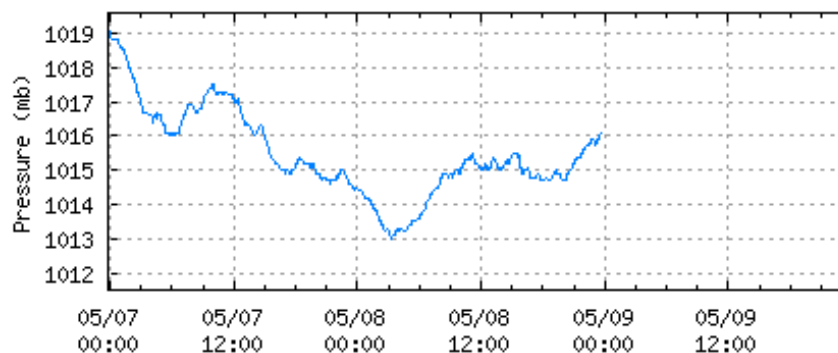Historical Maximum Water Level: Jan 1 1987, 3.65 ft.
Next High Tide: 05/09/2015 12:04 (EDT), -0.97 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC
Wind Speed / Gusts / Direction

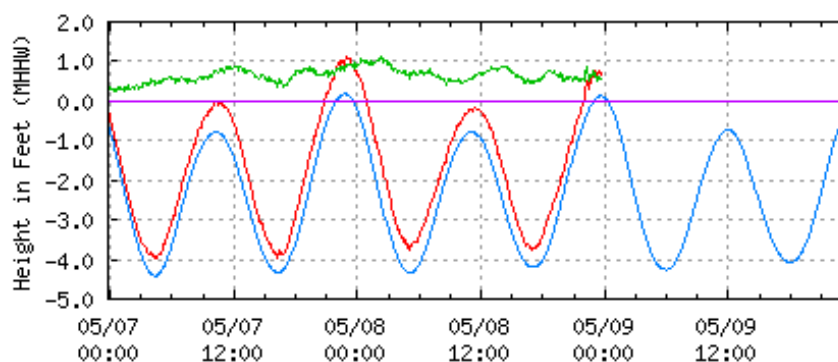Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 14 knots Gusts: 17 knots Direction: 5° T

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC

Barometric Pressure

barometric pressure ——
Last Observed Sample: 05/08/2015 23:42 (EDT)
Barometric Pressure: 1016.1 mb

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

Preliminary Water Level, relative to Mean Higher High Water(MHHW)

Predicted Tide ——   (Obs-Pred) ——
Observed WL ——   MHHW ——

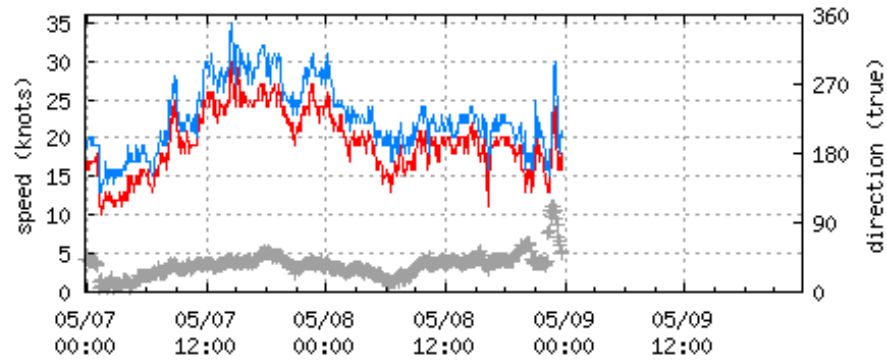Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.71 ft. Predicted: 0.13 ft. Residual: 0.58 ft.
Historical Maximum Water Level: Sep 25 2008, 2.81 ft.
Next High Tide: 05/09/2015 12:00 (EDT), -0.73 ft.

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC
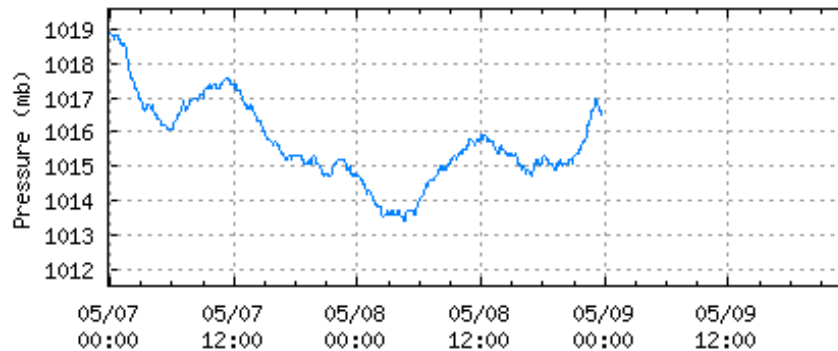

Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 16 knots Gusts: 20 knots Direction: 52° T

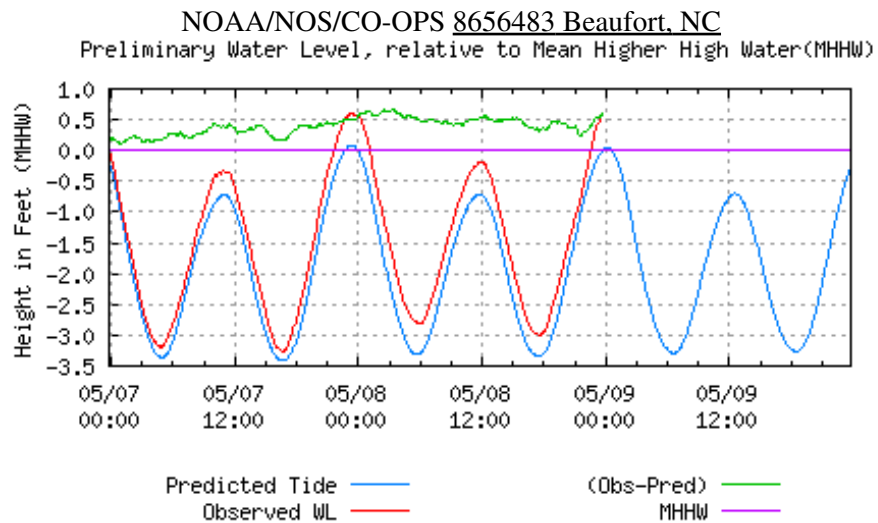### NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

Last Observed Sample: 05/08/2015 23:42 (EDT)
Barometric Pressure: 1016.6 mb

NOAA/NOS/CO-OPS 8656483 Beaufort, NC
Preliminary Water Level, relative to Mean Higher High Water(MHHW)

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.60 ft. Predicted: 0.00 ft. Residual: 0.60 ft.
Historical Maximum Water Level: Sep 14 2005, 3.01 ft.
Next High Tide: 05/09/2015 00:09 (EDT), 0.04 ft.

NOAA/NOS/CO-OPS 8656483 Beaufort, NC
Wind Speed / Gusts / Direction

Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 8 knots Gusts: 13 knots Direction: 95° T

NOAA/NOS/CO-OPS 8651370 Duck, NC
Preliminary Water Level, relative to Mean Higher High Water(MHHW)
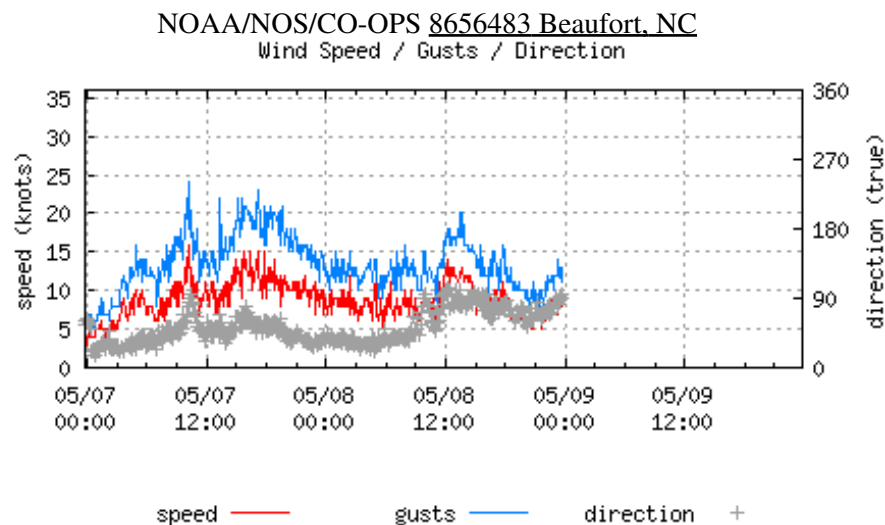

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
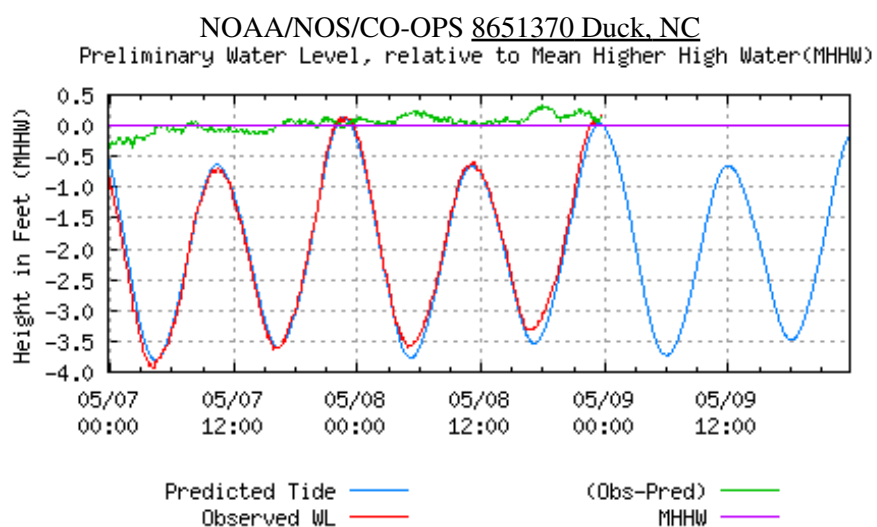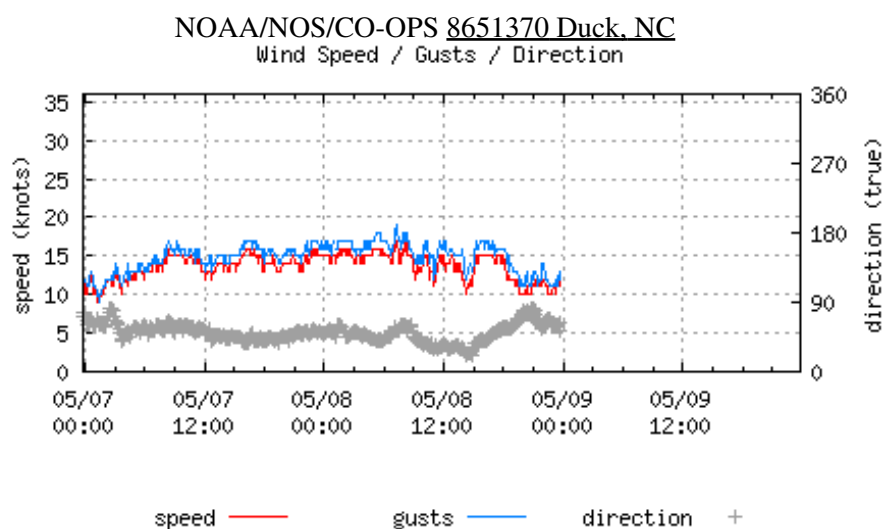Observed: 0.16 ft. Predicted: 0.02 ft. Residual: 0.14 ft.
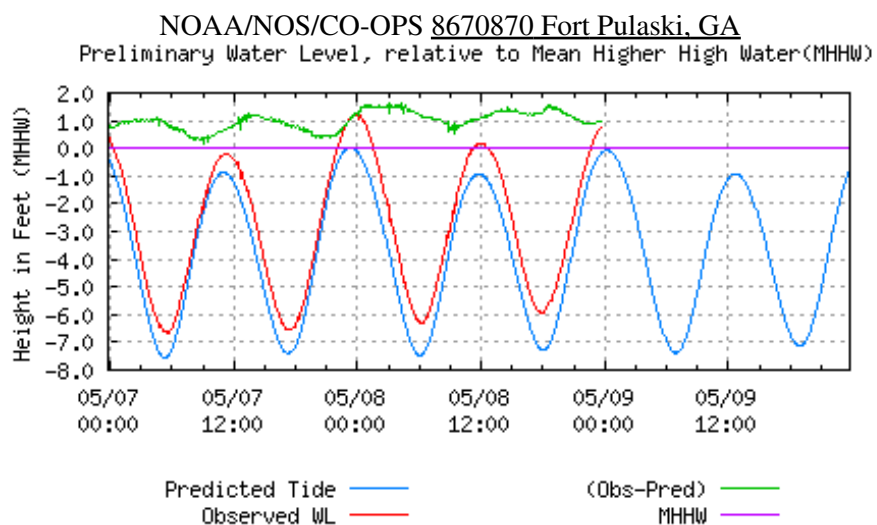Historical Maximum Water Level: Sep 18 2003, 4.13 ft.
Next High Tide: 05/09/2015 12:00 (EDT), -0.64 ft.

NOAA/NOS/CO-OPS 8651370 Duck, NC
Wind Speed / Gusts / Direction

Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 11 knots Gusts: 12 knots Direction: 52° T
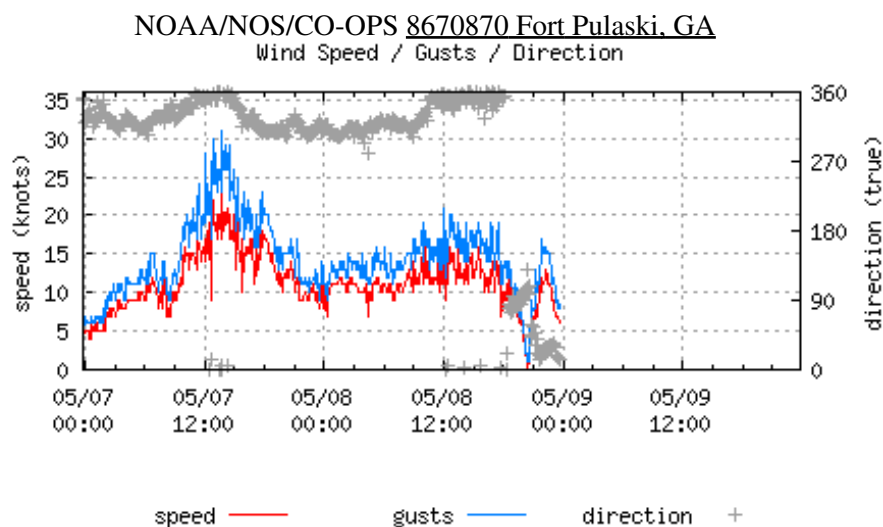
NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Last Observed Sample: 05/08/2015 23:36 (EDT). Data relative to MHHW
Observed: 0.75 ft. Predicted: -0.20 ft. Residual: 0.95 ft.
Historical Maximum Water Level: Oct 15 1947, 3.40 ft.
Next High Tide: 05/09/2015 00:13 (EDT), -0.08 ft.

NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA

Last Observed Sample: 05/08/2015 23:36 (EDT)
Wind Speed: 6 knots Gusts: 8 knots Direction: 14° T

NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL
Preliminary Water Level, relative to Mean Higher High Water(MHHW)

Last Observed Sample: 05/08/2015 23:42 (EDT). Data relative to MHHW
Observed: 0.41 ft. Predicted: -0.57 ft. Residual: 0.98 ft.
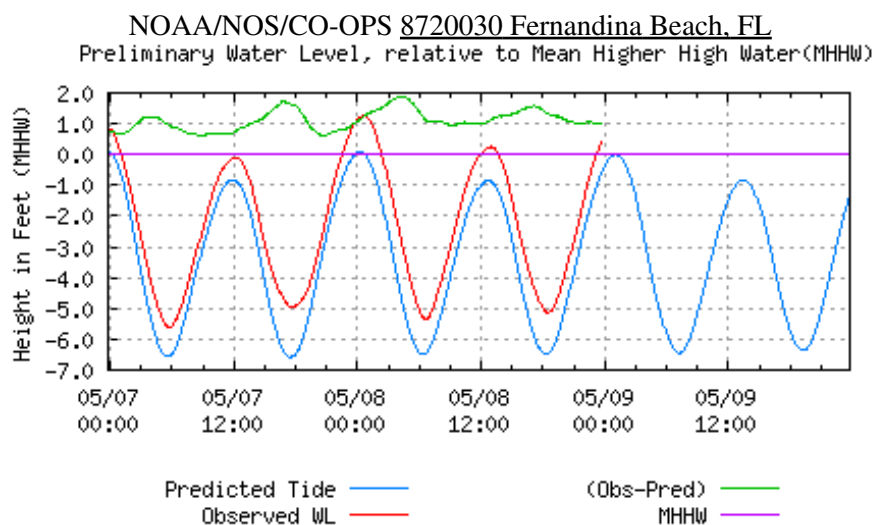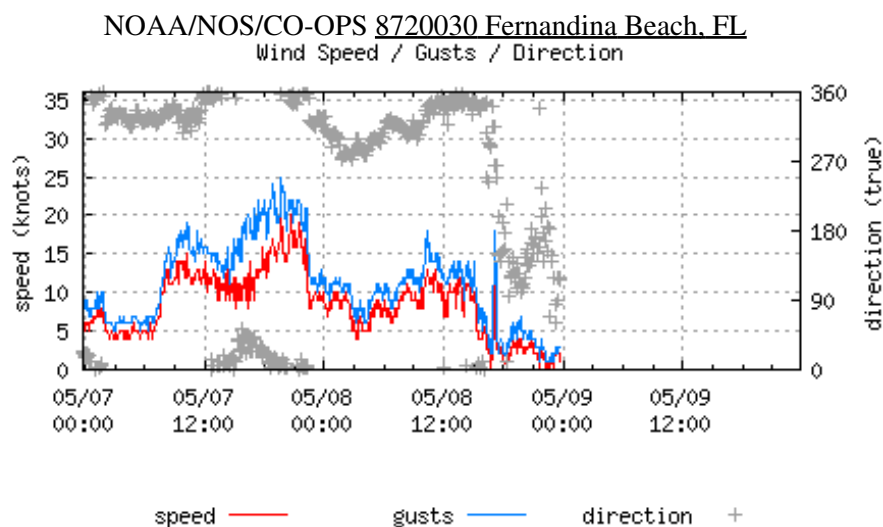Historical Maximum Water Level: Oct 2 1898, 6.94 ft.
Next High Tide: 05/09/2015 01:04 (EDT), -0.02 ft.

NOAA/NOS/CO-OPS 8720030 Fernandina Beach, FL
Wind Speed / Gusts / Direction

Last Observed Sample: 05/08/2015 23:42 (EDT)
Wind Speed: 1 knots Gusts: 3 knots Direction: 120° T

Subtropical Storm ANA QuickLook, POSTED 00:00 EDT 05/09/2015

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8665530	Charleston, SC	05/08/2015 23:42 (EDT)	0.96 ft	0.02 ft	0.94 ft	1.37 ft
8662245	Oyster Landing (N Inlet Estuary), SC	05/08/2015 23:42 (EDT)	0.41 ft	-0.36 ft	0.77 ft	1.27 ft
8661070	Springmaid Pier, SC	05/08/2015 23:42 (EDT)	1.17 ft	-0.06 ft	1.23 ft	1.17 ft
8658163	Wrightsville Beach, NC	05/08/2015 23:42 (EDT)	0.71 ft	0.13 ft	0.58 ft	0.91 ft
8656483	Beaufort, NC	05/08/2015 23:42 (EDT)	0.60 ft	0.00 ft	0.60 ft	0.60 ft
8651370	Duck, NC	05/08/2015 23:42 (EDT)	0.16 ft	0.02 ft	0.14 ft	0.16 ft
8670870	Fort Pulaski, GA	05/08/2015 23:36 (EDT)	0.75 ft	-0.20 ft	0.95 ft	1.22 ft
8720030	Fernandina Beach, FL	05/08/2015 23:42 (EDT)	0.41 ft	-0.57 ft	0.98 ft	1.25 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce